

CONTENTS

Preface	vii
Contents	ix
I.S. Duff, Architectures and systems	1
I.S. Duff, Direct solvers	21
G. Meurant, Iterative methods for multiprocessor vector computers	51
ASTRID group, ASTRID: Structured finite element and finite volume programs adapted to parallel vectorcomputers	81
D.V. Anderson, Parallel algorithms for plasma physics calculations	117
A. Rizzi, Vector algorithm for large-memory Cyber 205 simulations of Navier-Stokes flows over delta wings	137
A.J. Simmons and D. Dent, The ECMWF multi-tasking weather prediction model	165
C. Roucairol, Parallel computing in combinatorial optimization	195
N. Magnenat Thalmann and D. Thalmann, Computer graphics and animation	221